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ENGLISH ABSTRACT OF JP 10-189064

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CYLINDRICAL AIR CELL

PUB. NO.: 10-189064 A]
PUBLISHED: July 21, 1998 (19980721)
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ABSTRACT

PROBLEM TO BE SOLVED: To provide a cylindrical air cell to improve its safety by preventing leakage of an electrolyte in discharging.

SOLUTION: This air cell includes an air pole member 4 having catalyst layers 5a and 5b within a positive electrode can 2, a hollow cylindrical separator 6 having a bottom, and a gel negative electrode 7. In this case, the gel negative electrode 7 is charged at 50% to 80% of the volume of the separator 6, and an uncharged part of the gel negative electrode material 7 is constituted as a space part 8 on the opening part side of the separator 6. The catalyst layers 5a and 5b are composed of the low-density catalyst layer 5a having a density of 0.9g/cm³ or less, and the high-density catalyst layer 5b having a density of 1.0g/cm³ or more. The low-density catalyst layer 5a is positioned in the region opposed to the space part 8 made on the opening part side of the separator 6. In addition, the inside face of the low-density catalyst layer 5a is set to have a surface area of 0.3cm² to 2.0cm².